

Amendments to the Claims

Please replace the claims as filed with the claims set forth below. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system for providing location information in relation to telecommunications plant equipment, the system comprising:
 - a plurality of cabinets of telecommunications plant equipment, each cabinet of telecommunications plant equipment being part of an access network and having:
 - a first Global Positioning System (GPS) location sensor located within the cabinet and configured to provide a first location associated with the telecommunications plant equipment;
 - a set of equipment characteristics comprising information about the cabinet of telecommunications plant equipment relevant to servicing of the telecommunications plant equipment; and
 - a first network interface in operative communication with a network engineering center via a service network,
 - the first location sensor being installed at and associated with the cabinet of telecommunications plant equipment and configured to report the first location to the network engineering center via the service network; and
 - ~~a first computer readable medium, the computer readable medium encoded with instructions executable by the microprocessor to communicate, to the network engineering center over the service network, the location and the set of equipment characteristics associated with the cabinet of telecommunications plant equipment; and~~
 - a portable technician device, comprising:
 - a display;
 - an imaging device configured to capture a plurality of images;
 - a second location sensor configured to ~~second provide a location~~ provide a plurality of locations associated with the portable technician device;

a second network interface in operative communication with the network engineering center via the service network; and
a second computer readable medium, the computer readable medium encoded with instructions executable by the microprocessor to:

receive, from the network engineering center over the service network, an indication of a servicing need for ~~one of the telecommunications plant equipment;~~ in a particular cabinet;

receive, from the network engineering center over the service network, the first location and the set of equipment characteristics associated with the ~~one of the telecommunications plant equipment;~~ and equipment in the particular cabinet;

map a route to the one of the telecommunications plant equipment as a function of the second location and the first location associated with the one of the telecommunications plant ~~equipment;~~ equipment;
receive, from the imaging device, a captured image of the particular cabinet;

receive, from the network engineering center over the service network, the set of equipment characteristics associated with the telecommunications plant equipment in the particular cabinet; and display, on the display, the captured image of the particular cabinet simultaneous with at least a portion of the set of equipment characteristics associated with the telecommunications plant equipment in the particular cabinet, the displayed portion of the set of equipment characteristics comprising detailed cabinet configuration information including configuration of the telecommunications cabinet equipment.

2. (Previously Presented) The system of claim 1, wherein the portable technician device further comprises:
 - a distance sensor;

4 a direction sensor; and
5 the second computer readable medium is further encoded with instructions executable by
6 the microprocessor to:
7 receive a distance from the distance sensor; receive a direction from the direction
8 sensor; and
9 calculate a third location based at least in part on the second location, the
10 direction, and the distance, wherein the third location is the location of an
11 object in the image.

1 3. (Previously Presented) The system of claim 2, wherein the portable technician
2 device further comprises a transmitter, and wherein the transmitter is operable to provide the
3 location of the object in the image to a query database.

1 4. (Previously Presented) The system of claim 3, wherein the portable technician
2 device further comprises a receiver, and wherein the receiver is operable to receive description
3 information from the query database.

1 5. (Original) The system of claim 4, wherein the object is a landmark, and wherein
2 the information about the landmark is selected from a group consisting of: historic information,
3 access rates, driving directions, parking information, and walking directions.

1 6. (Canceled)

1 7. (Currently Amended) The system of claim 4, ~~wherein the portable technician~~
2 ~~device further comprises a display, and~~ wherein the display is operable to display information
3 selected from the following: the direction, the distance, and the location of the object.

1 8. (Currently Amended) The system of claim 2, ~~wherein the portable technician~~
2 ~~device further comprises a display, and~~ wherein the instructions are further executable by the
3 microprocessor to:

4 access a map, wherein the map includes a route from the second location to the third
5 location; and
6 provide the map to the display.

1 9. (Original) The system of claim 8, wherein the map is a topological map.

1 10. (Canceled)

1 11. (Currently Amended) A method for obtaining location information in relation to
2 an object image, the method comprising:
3 initiating a mapping function integrated into a portable device substantially upon leaving
4 a first location, the mapping function being configured to log locations according to a
5 location sensor;
6 terminating the mapping function substantially upon arrival at a second location remote
7 from the first location;
8 generating a route map from the first location to the second location as a function of the
9 locations logged according to the location sensor;
10 capturing an object image of a cabinet of telecommunications plant equipment;
11 determining an installation location within the cabinet of telecommunications plant
12 equipment having a relatively high global positioning system (GPS) signal strength
13 with respect to other locations at the telecommunications plant equipment;
14 installing a GPS location system at the installation location;
15 receiving a third location defining a location of the telecommunications plant equipment
16 from the GPS location system;
17 receiving a set of equipment characteristics comprising information about the
18 telecommunications plant equipment relevant to servicing of the telecommunications
19 plant equipment; and
20 associating the telecommunications plant equipment with the route map, the object
21 image, and the ~~third location~~ location;
22 displaying, with a portable technician device, the route map;
23 capturing, with the portable technician device, a second image of the cabinet of
24 telecommunications plant equipment;
25 receiving, with the portable technician device, the set of equipment characteristics; and

26 displaying, with the portable technician device, the second captured image simultaneous
27 with at least a portion of the set of equipment characteristics, the displayed portion of
28 the set of equipment characteristics comprising detailed cabinet configuration
29 information including configuration of the telecommunications cabinet equipment.

1 12. (Canceled)

2 13. (Previously Presented) The method of claim 11, wherein the method further
3 comprises:
4 providing a request for information about the telecommunications plant equipment,
5 wherein the request includes the set of equipment characteristics.

1 14. (Previously Presented) The method of claim 13, wherein the method further
2 comprises:
3 receiving the information about the telecommunications plant equipment.

1 15.-16. (Canceled)

1 17. (Previously Presented) The method of claim 11, wherein the method further
2 comprises:
3 storing the object image; and
4 associating the stored object image with at least one of the route map, the set of
5 equipment characteristics, or the third location.

1 18.-28. (Canceled)

1 29. (Currently Amended) A system for providing telecommunications plant
2 equipment monitoring, the system comprising:
3 a central monitor remote from, and in operative communication with, a plurality of
4 portable technician devices, wherein the central monitor is configured to receive an
5 indication of a servicing need for one of a plurality of cabinets of telecommunications
6 plant equipment, each cabinet of telecommunications plant equipment being
7 associated with a location and a set of equipment characteristics comprising

8 information about the cabinet of telecommunications plant equipment relevant to
9 servicing of the telecommunications plant equipment, the location associated with
10 each telecommunications plant equipment being determined by a location sensor
11 being installed within and associated with the cabinet of telecommunications plant
12 equipment and configured to remotely report the location to the central monitor; and
13 a dispatch module in operative communication with the central monitor and with a
14 dispatcher, and configured to:

15 receive an indication of an event occurrence, the event occurrence relating to a
16 servicing need for one of the plurality of cabinets of telecommunications plant
17 equipment; and

18 upon receiving the indication, automatically communicate the location and the set
19 of equipment characteristics associated with the one of the cabinets of
20 telecommunications plant equipment to at least one of the portable technician
21 devices for use in dispatching a response to the event ~~occurrence~~, occurrence;
22 and

23 the at least one of the portable technician devices configured to:

24 capture an image of the one of the telecommunications plant equipment;

25 receive the set of equipment characteristics associated with the one of the cabinets
26 of telecommunications plant equipment; and

27 display the captured image simultaneous with at least a portion of the set of
28 equipment characteristics associated with the one of the cabinets of
29 telecommunications plant equipment, the displayed portion of the set of
30 equipment characteristics comprising detailed cabinet configuration
31 information including configuration of the telecommunications cabinet
32 equipment.

1 30. (Canceled)

1 31. (Previously Presented) The system of claim 1, wherein the telecommunications
2 plant equipment comprises inside plant equipment or outside plant equipment.

- 1 32. (Canceled)
- 1 33. (Previously Presented) The method of claim 17, wherein the method further
- 2 comprises:
- 3 communicating the object image with a network engineering center over a network.